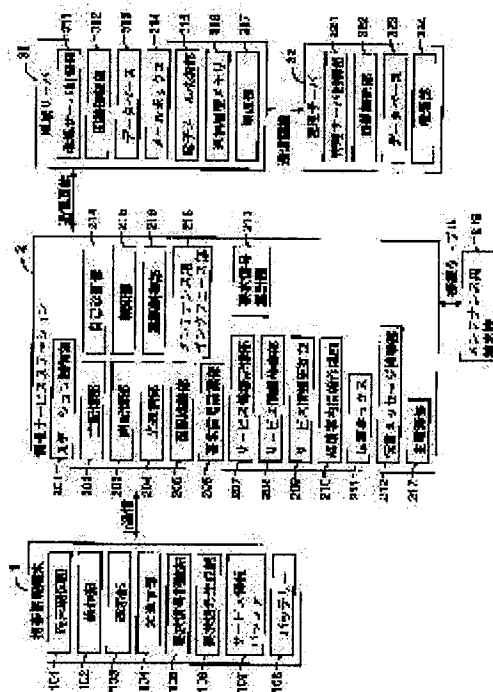


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SOLUTION: An optical communication part 204 starts a system program stored in a main storage part 34 by a station control part 201 when the requesting signal of peripheral map information with the arrangement position of an information service station 2 as a center is received by Ir communication from the portable information terminal 1. When an application program read by the control part 201 is an information retrieval program, information is retrieved based on the program. When it is a route retrieval program, a route is retrieved based on its route retrieval algorithm. When it is another information retrieval algorithm, various kinds of information are obtained from various information groups as a retrieval result and a retrieval result is transferred to the portable information terminal 1 from the optical communication part 204 by Ir communication.



<http://www19.ipdl.inpit.go.jp/PA1/result/detail/main/wAAAcдайVoDA412324542P1.htm> 11/16/2007

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

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[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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CLAIMS

[Claim(s)]

[Claim 1] The server which has the line connection section which connects a communication line, and the database which memorized various service information, The Personal Digital Assistant which has the demand signal generation section which generates the demand signal for requiring the optical-communication section and communication link authorization which carry out optical communication, and various service information, The optical-communication section which carries out optical communication to two or more Personal Digital Assistants, the line connection section which connects a communication line, It consists of an information service station which has the service information storage section which carries out the updating storage of the various service information. Said information service station When it is installed in predetermined two or more areas and a demand signal is received from two or more Personal Digital Assistants, The information service system which carries out optical communication to each Personal Digital Assistant identifiable, respectively, and is characterized by retrieving the service information according to the demand from the database of the service information storage section or a server, and transmitting to each Personal Digital Assistant.

[Claim 2] The optical-communication section of said Personal Digital Assistant and the optical-communication section of said information service station are an information service system according to claim 1 characterized by having the infrared processing section of an IrDAControl method further.

[Claim 3] Said information service station is an information service system according to claim 1 characterized by installing covering which has the structure which contains the optical-communication section which becomes **** which constitutes this station from the infrared processing section of an IrDAControl method, prepares the infrared filter window for specifying the receipt part, and intercepts sunrays further in the head of ****.

[Claim 4] The service information beforehand memorized by the service information storage section of said information service station is an information service system according to claim 1 characterized by being the index information for acquiring the map information on surrounding that the information service station was installed, the various facility information included in this circumference map, a traffic information, organization information, the local information about event information, and such local information.

[Claim 5] It is the information service system according to claim 1 which said server consists of a local server which carries out data communication to two or more information service stations installed in the predetermined area through the communication line, and a management server which manages two or more local servers through a communication line, and is characterized by said management server updating the service information memorized in the database of a local server to predetermined timing.

[Claim 6]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the information service system which can acquire service information peculiar to an area by optical communication, and can check it through a Personal Digital Assistant from the information service station installed in predetermined two or more areas.

[0002]

[Description of the Prior Art] In recent years, a pocket information management system and feeble power communication equipment came to spread broadly by ED, such as a semi-conductor and a small cell. Consequently, at the time of going out, a user can connect with the telephone line by a cellular phone to the electric wave from every area, and can consider conversation as a transmission place. Moreover, the Personal Digital Assistant which has communication facility can be connected with the telephone line, and data communication can also be carried out from a personal computer etc. Furthermore, it can connect with the telephone line with a cellular phone from mobiles, such as an automobile, and conversation can also be considered as a transmission place. Moreover, in order to mitigate an automobilism load, the operation path to positional information and the destination is displayed on a screen, or the car navigation equipment reported with voice has spread.

[0003] Moreover, when performing the information transmission to mobiles, such as an automobile, as informational contents, two of the information on narrow areas, such as broader-based service information, such as weather intelligence, event information, and long-distance root information, positional information of a mobile, and regulation information on the part in which a mobile carries out the whereabouts, are raised. According to the publication of JP,3-55054,B, by for example, the central office installed in the center section of the large area and two or more sign post stations which divided this large area and were installed The various information to need is divided into broader-based information and local information, and a system is simplified by turning these two information to a mobile station via the sign post station in an area with the same radio-transmission means, and transmitting it, and interference of transmission is also prevented, And by transmitting local information, without waiting for the demand from a mobile station, the collision of call origination is prevented and the data transmission system which simplifies control is proposed.

[0004] Furthermore, according to the publication of JP,7-21417,B, the navigation aid system which displays the location of a mobile on the map displayed while the mobile displayed path guidance on real time on the screen of a display in response to the newest data of a traffic information service center by the electric wave is proposed.

[0005]

[Problem(s) to be Solved by the Invention] However, the problem that where of cost becomes very high since a complicated transmission processing circuit is needed in order to change a sign post station in order, or to change the frequency of a central office and sign post station for broader-based information and area information and to acquire so that it may not interfere with the transmitting location of a mobile station, in case the area information from two or more sign post station is transmitted according to the

data transmission system given in JP,3-55054,B, and it is aimed at a mobile station is.